

# Mosquito Control

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**From:** Kramer, Gary  
**Sent:** Monday, September 16, 2013 3:39 PM  
**To:** 'Noftsinger, Thomas'  
**Cc:** Hane, Drew; Kuntz, Robert  
**Subject:** RE: Ballwin mosquito control

Thank you for the information. I still will appreciate a written response from the manager or higher up person that can be shared with the higher ups here at Ballwin.

**Gary R. Kramer, P.E.**  
City Engineer/Director  
Public Works Department  
City of Ballwin  
200 Park Drive  
Ballwin, MO 63011  
Phone: 636-227-9000

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**From:** Noftsinger, Thomas  
**Sent:** Monday, September 16, 2013 3:35 PM  
**To:** Kramer, Gary  
**Cc:** Hane, Drew  
**Subject:** RE: Ballwin mosquito control

I am a vector control specialist. If you want a response from the manager or higher up I'm sure they will be happy to oblige, but sometimes it can take a while to get an official response. Since you are planning for next year I thought you might appreciate a quick response.

The level of service you are seeking is outside the bounds of what we have the resources to provide, and is typically done by the individual municipality. Please feel free to contact me with additional questions, or if you desire an official response, email my manager, Drew Hane.

Tom Noftsinger  
St Louis County Vector Control

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**From:** Kramer, Gary  
**Sent:** Monday, September 16, 2013 3:23 PM  
**To:** Noftsinger, Thomas  
**Subject:** RE: Ballwin mosquito control

So I can share this with the City Administrator, what is your position at the Health Dept?

**Gary R. Kramer, P.E.**  
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**From:** Noftsinger, Thomas  
**Sent:** Monday, September 16, 2013 2:39 PM  
**To:** Kramer, Gary  
**Cc:** Hane, Drew  
**Subject:** RE: Ballwin mosquito control

No, we cannot fog the entire city of Ballwin on a weekly basis in 2014.

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**From:** Patterson, Neal  
**Sent:** Monday, September 16, 2013 7:20 AM  
**To:** Noftsinger, Thomas  
**Subject:** FW: Ballwin mosquito control

fyi

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**From:** Kramer, Gary  
**Sent:** Thursday, September 12, 2013 9:28 AM  
**To:** administration.doh; Patterson, Neal  
**Cc:** Kuntz, Robert; Link, James  
**Subject:** Ballwin mosquito control

Neal,

We have contracted with St. Louis County since 2010 for mosquito control. It is our understanding that the County does not fog the entire city of Ballwin on a weekly basis. Instead the County fogs portions of Ballwin on Sunday evenings based on your mosquito traps. This is insufficient as we continue to receive complaints about numerous mosquito bites.

Please confirm, in writing, whether or not St. Louis County can fog the entire City of Ballwin on a weekly basis in 2014.

Your earliest response is appreciated as we are preparing our budget for 2014.

**Gary R. Kramer, P.E.**  
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**From:** Hane, Drew  
**Sent:** Monday, September 16, 2013 5:17 PM  
**To:** Kramer, Gary; Kuntz, Robert; Link, James  
**Cc:** Smail, Rebecca; Khan, Dr. Faisal

**Subject: Ballwin mosquito control**

Gary,  
You are correct that the entire city of Ballwin is not treated with adulticide on a weekly basis by Saint Louis County's Vector Control program. Our program covers all of the unincorporated areas of the entire 524 square miles of Saint Louis County, as well as contracts with around 70 of the 90+ municipalities like yours. At our current contract rates, it is impossible for us to provide coverage of unincorporated areas, as well as full coverage of all contracted municipalities on a weekly basis. Instead, we utilize a network of trap locations to pinpoint where disease carrying mosquito concentrations are highest, as well as testing for West Nile Virus in these mosquito populations. Our insecticide that is applied by the fogging trucks specifically targets mosquitoes in the Culex genus, as these are the most likely to carry West Nile Virus or St. Louis Encephalitis. It is important to note this, as we get several calls for mosquito problems during the daytime hours. Mosquitoes of the Culex genus are not active during the daytime hours, but several other species of mosquito do feed during the day. These mosquitoes that feed during the day are typically not disease carrying species—we consider them to be nuisance mosquitoes, and therefore, as they are not of particular risk to public health, we do not treat for them.

I have attached the 2012 adulticide spray schedule, which outlines each area that could potentially be covered on any given night of the week. This schedule has been carried over into the 2013 season, and will likely remain unchanged going into 2014. As you can see by the schedule there are many locations that we must cover each night; the limitations of manpower, insecticide, and equipment mean we must follow our surveillance data to determine where we are targeting areas for adulticide treatment. We survey each area of the County a few days before treatment is set so that we can evaluate where the Culex mosquito populations are the highest. High trap counts of Culex species, investigating reports of mosquito activity (to determine if the offending mosquitoes are nuisance or could be Culex), along with information gathered by our field employees who are larvaciding (determining species of mosquito larva and pupae) are what steer our adulticiding program on a daily basis.

With that said, the adulticiding treatments are very precise, pinpoint operations that only work to abate any specific mosquitoes that come into contact with the spray. The much more effective treatment is the larvacide treatments we apply to standing water. These treatments target mosquitoes in three out of their four life stages, and are more effective as the egg, larva, and pupae mosquito cannot escape the treated waters. Because of our treatment style, large area to cover, and knowledge that we can abate more mosquitoes with larvacide treatments than adulticide, we concentrate every year on our larvacide treatments on publically accessible properties and encourage all individual residents to do the same by eliminating or treating mosquito breeding habitats on private property. We then supplement that larvaciding with pinpoint adulticiding treatment when we survey large populations of disease carrying mosquitoes, or find West Nile Virus present in our trapped mosquitoes.

I am confident in our methods for providing mosquito control services throughout the entirety of Saint Louis County, as the past two years have been extremely active for West Nile Virus and mosquito species in the Culex genus. We were seeing the same conditions and surveillance numbers as Dallas Texas in 2012, yet Saint Louis County had only two cases of West Nile Virus in humans, were Dallas had several fatalities and hundreds of people afflicted with the disease that year. This year we have seen mosquito populations double of last year, and concentrations of West Nile Virus about the same, yet we have only had three reported illnesses (all minor) from West Nile Virus. I believe our concentration on

knocking down mosquito breeding and pinpoint applications of adulticide where WNV is most probable has ensured that we did not see the damage that WNV can do, like they did in Texas last year.

So, all this adds up to me being able to definitely state that we will not be able to routinely apply adulticide throughout the entirety of Ballwin in 2014. While it may be easy for us to cover the entirety of Bella Villa, they are only serviced when our mosquito traps in the area show a need for adulticide application—not on a weekly basis. Larger municipalities are often broken down into spray routes based on their size and the location of mosquito traps in the area. We try very hard to ensure that we spray everyone that we can each night, but again with limited resources we are forced to make decisions and we base those decisions on our surveillance program.

Moving forward, we will continue to provide services as outlined in the contract signed, but in the same fashion as we have done in previous years and during this current year. If you feel it necessary to supplement our adulticiding efforts or take them over completely, I understand and would be glad to work with you on any joint efforts to help you more effectively serve the residents of Ballwin.

Sincerely,

Drew Hane,  
Operations Manager  
Saint Louis County Department of Health  
Vector Control & Veterinary Services  
10521 Baur Boulevard  
Olivette, MO 63132

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**From:** Kramer, Gary  
**Sent:** Monday, September 16, 2013 8:58 AM  
**To:** Hane, Drew; Smail, Rebecca  
**Cc:** Kuntz, Robert; Link, James  
**Subject:** FW: **Ballwin mosquito control**  
**Importance:** High

We have contracted with St. Louis County since 2010 for mosquito control. It is our understanding that the County does not fog the entire city of Ballwin on a weekly basis. Instead the County fogs portions of Ballwin on Sunday evenings based on your mosquito traps. This is insufficient as we continue to receive complaints about numerous mosquito bites.

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**Saint Louis County, Missouri  
2012 Mosquito Spraying Schedule**

This schedule shows which areas are considered for spraying on a given night, weather permitting. (Note: only some of those areas, or portions of areas, will actually be sprayed). For a listing of the actual areas being sprayed on a given night, call the Mosquito hotline after 6 PM: 314-615-4284 (615- 4BUG). Spraying normally is done beginning at sunset; occasionally it will be done the following morning before sunrise.

Sunday	Monday	Tuesday	Wednesday	Thursday
Ballwin	BellefontaineNbrs	Bel-Nor	Bella Villa	Clayton
Chesterfield	Calverton Park	Bel-Ridge	Crestwood	Crystal Lake Park
Clarkson Valley	Country Club Hills	Beverly Hills	Grantwood Villge.	Des Peres
Ellisville	Dellwood	Charlack	Green Park	Frontenac
Eureka	Flordell Hills	Cool Valley	Lakeshire	Huntleigh
Manchester	Jennings	Country Life Acrs	Mackenzie	Kirkwood
Twin Oaks	Moline Acres	Creve Coeur	Marlborough	Ladue
Wildwood		Greendale	Sunset Hills	Maplewood
Winchester		Hanley Hills	Wilbur Park	Oakland
		Hillsdale		Richmond Hts
		Normandy		Rock Hill
		Northwoods		Warson Woods
		Norwood Court		Webster Groves
		Olivette		Westwood
		Pagedale		
		Pasadena Hills		
		Pasadena Park		
		Pine Lawn		
		St. John		
		Sycamore Hills		
		Town & Country		
		University City		
		Uplands Park		
		Velda City		
		Velda Village Hills		
		Vinita Terrace		
<b>Unincorporated Areas</b>				
Barretts	Castle Point	Carsonville	Aftton	
Castlewood	Crown Point	Chicago Hts.	Concord Village	
Crescent	Florissant	Creve Coeur	J.B. Park	J.B. Park
Earth City	Ft Bellefontaine	Florissant	Lemay	Lemay
Fenton	Glasgow Village	West Overland	Mehlville	Mehlville
Lost Hills	Hathaway		Oakville	Oakville
Sherman	Seven Hills			
	Spanish Lake			